

Ajinkya Joglekar

Automotive Engineer specializing in Vehicle Autonomy

Automotive Engineer searching for hands on experience in domains Vehicle Autonomy/ Automation in multinational companies/OEMs. Seeking an internship/Co-op in summer 2020.

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WORK EXPERIENCE

Graduate Research Assistant Clemson University International Center for Automotive Research

01/2020 – Present

Greenville, SC

Achievements/Tasks

- Assisting research in HIL/SIL simulation for autonomous vehicle functionalities(Confidential)
- Working on scaled autonomous vehicles in the domains of perception, motion planning and controls.

Software Developer Fair Share IT Services Pvt Ltd

02/2018 – 07/2019

Pune, India

Achievements/Tasks

- Contributed towards development of SmartBit system, a web application for staffing companies for handling employment contracts in Japan (php, Laravel, SQL).
- Conceptualized, designed and deployed data parsing tools used by organizations providing software services (Python, Laravel).

INTERN| R&D Engine Validation Cummins India Ltd

10/2017 – 01/2018

Pune, India

Achievements/Tasks

- Performed extensive critical engine performance tests for new age 6-cylinder EGR engines.

INTERN| R&D Transmission Department Force Motors Ltd

01/2016 – 07/2016

Achievements/Tasks

- Developed a production ready design of retro fitment assembly for raising PTO shaft drive resolving low ground clearance issue while saving significant costs to the company (Confidential).

EDUCATION

Masters in Automotive Engineering Clemson University / Greenville SC

08/2019 – Present

GPA 3.75/4

Bachelors in Mechanical Engineering Symbiosis International University

04/2013 – 06/2017

Pune, India

SKILLS

ROS

Machine Learning

Robotics

Automation

Autonomous Vehicles

Motion Planning

Perception

Controls

Python

MATLAB

PreScan

Simulink

Gazebo

CopellaSim

dSPACE

Vehicle Design

Powertrain Controls

Arduino

SLAM

HPC

Automotive Design

Catia

Siemens NX

C++

PERSONAL PROJECTS

Designing and deploying lane keeping assist and adaptive cruise control on 1/10th scale RC car

- This system was developed using an RC car with ultrasonic sensors along with filtering and control algorithms for the above functionalities and was tested on designed track

Detection of Lane Line on unmarked roads as an improvement for Advanced Driver Assistance Systems to make them compatible for underdeveloped transportation infrastructure.

- Successfully designed and simulated this system using the TASS PreScan software along with Simulink for control algorithms and OpenCV for predicting lane lines using edge detection and Hough transform.

Design and Analysis of flight characteristics of Dragonfly Drone Mechanism.

Analysis on Vibration Damping in Conventional Automobile Suspension under simulated conditions.

LEADERSHIP EXPERIENCE

Design and Development Head | International Robocon Competition

Led a team to design and develop a wind energy powered robot capable of navigating track and assembling a windmill turbine as part of Robocon 2016 challenge.

Team Lead | EZenith Internship

Led a team to design a skateboard model for Electric Vehicle complete with Motor Design, Transmission Design, Battery Bank Design and Battery Management system.